EDH Developer Setup

Download and Install Prerequisites

Because most of the team uses mac or linux, we primarily manage these tools using package managers such as homebrew, apt, or yum. Please reference the appropriate package manager for your system for the following installation steps.

Java (1.8)

(should already be installed)

Scala (2.11)

```
brew install scala@2.11
```

SBT

```
brew install sbt
```

- Need Amazon s3 credentials for maven repo to be added to your home directory
- Install them to <Home>/.sbt/.s3credentials
- Make sure your AWS account has the correct access

Apache Spark

Download the correct version (2.1.2 as of this writing) from: https://spark.apache.org/downloads.html

Run the following commands to setup your spark home directory:

```
cd ~
ln -s [path to where you extracted spark] spark
cd ~/spark/conf
cp spark-env.sh.template spark-env.sh


==== edit andd add the following lines to the end of the spark-env.sh file
===
SPARK_MASTER_IP=127.0.0.1
SPARK_WORKER_MEMORY=4g

=== save and exit ===


=== update ~/.bash_profile and add the following line ===

SPARK_HOME="${HOME}/spark"


=== save and exit ===


source ~/.bash_profile
```

Apache Cassandra

```
brew install cassandra
```

Download and Build Baldur

Clone the Baldur repository

```
git clone https://github.com/medseek-engineering/edh-baldur.git
```

```
=== update ~/.bash_profile and add the following line ===

BALDUR_HOME=[absolute path to where you cloned edh-baldur]
export PATH=$PATH:"$BALDUR_HOME/bin"

=== save and exit ===


source ~/.bash_profile
```

Build Baldur

```
sbt assembly
```

Start up local environment

Run Zookeeper (accessible at port 2181)

```
brew services start zookeeper
```

OR

```
zookeeper-server-start /usr/local/etc/kafka/zookeeper.properties
```

Run Cassandra (accessible at 9042)

```
brew services start cassandra
```

OR

```
cassandra -f
```

Create the datahub keyspace

```
edh schema cassandra migrate -K lookups -e local
```

Run RabbitMQ (accessible at port 5672)

```
brew services start rabbitmq
```

Configure RabbitMQ

Ensure that you have added RabbitMQ sbin folder to PATH

```
export PATH=$PATH:[RabbitMQ sbin folder]
```

to your path in your ~/.bash_profile, and then run the following:

```
rabbitmqctl add_vhost predict
rabbitmqctl add_user rabbitmq rabbitmq
rabbitmqctl set_user_tags rabbitmq administrator
rabbitmqctl set_permissions -p predict rabbitmq ".*" ".*" ".*"
rabbitmqctl set_permissions -p / rabbitmq ".*" ".*" ".*"
rabbitmqadmin declare exchange name=medseek-api type=topic durable=false
```

(if necessary)

- change port 5671 to 5672

Clone the edh-lookup-service

```
git clone https://github.com/medseek-engineering/edh-lookup-service.git
```

Start the lookup microservice

```
./start.sh
```

(if necessary)

- disable SSL in start.sh
- override baldur startup script to disable sslTruststore and useSsl=false
- override the amqp ports in baldur start script to 5672 (in both places)

Execute the Baldur QA script with sbt

```
cd $BALDUR_HOME
sbt qa
```

Server Access

Access to GitHub
Access to DockerHub
Access to S3 buckets
Access to RedShift
Access to Bastion

- SSH and RDP access to chi-bastion-03
    - Link to form https://tt.medseek.com/tmtrack/tmtrack.dll?ProjectPage&Template=submit&ProjectId=218&TableId=1000&TransitionId=0&CopyTableId=0&CopyRecordId=0&PostTransitionId=0
    - Create a secure account request so that you can get into our staging and prod environment
        - edh admins group
        - edh developers group
    - Worker Servers
    - Redshift

Website Access

- Github
    - EDH Developers
    - EDH Owners
- AWS Console
    - S3
- Dockerhub